

Fire and Ax ; Instances of which I will not here give, because I have already exceeded the bounds of a Letter.

IV. Part of a Letter from Sir Charles Holt, to the Publisher, concerning a Child who had its Intestines, Mesentery, &c. in the Cavity of the Thorax, and a further account of the person mentioned to have swallowed Stones, in No 253. of these Transactions.

S Ometime since I was desir'd by a Friend of mine to be present at the opening of a Child of his, of about 2 months old, which dyed (as he told me) after an unusual, and extraordinary manner. I found at the house two Learned Gentlemen and very good Anatomists, invited on the same occasion. We enquired into the Circumstances of the Childs Sicknefs and Death, and from the Women received the following account.

' That the Child was uneasie and restless from its Birth, and constantly laboured under a difficulty of Breathing.

' That its Illnefs was like nothing they had seen in other Children ; neither could they perceive it relieved by any thing administred to it, tho by the advice of a Learned Physician ; but it lay groaning and pining till it dyed.

' That they had always observed, when the Child was undrest an odd sort of working in its Breast, and could perceive a Crawling round the Ribs and Breast, on both sides, as if a Knot of small Eels, or large Earth-worms had been penn'd up within the Cavity.

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This Relation seemed strange, but upon the dissection we found sufficient reason to believe the account.

When we had opened the Abdomen there appeared none of the *Viscera* belonging to the Belly, except the Liver, the Kidneys, *Vesica Urinaria*, and *Intestinum Rectum*. We at first imagined that the other Intestines might be covered by the Liver, which, tho it be commonly large in Children, in this exceeded the usual size ; but upon turning of it up towards the Diaphragm, we only found under its concave part, the Stomach, not lying in its natural posture, for the *Pylorus* was drawn by the *Duodenum* cross the *Vertebrae* of the Back towards the *Fundus Ventriculi*, and part of the *Duodenum* passed thro a Foramen in the Diaphragm, placed on the Left side of that thro which the *Gula* descends, which occasion'd the *Pylorus* to lye almost *sub Fundo Ventriculi*. We then resolv'd to trace the *Rectum* from the *Anus* upward, not doubting but that it would lead us to the Mesentery and Intestines. The *Rectum*, we found, lay in an oblique line from the *Anus* to this new *Foramen*, and was received into it with a Portion of the *Duodenum*. This *Foramen* seemed to be formed by Nature, *a primo Ortu*, for transmitting those Guts into the *Thorax* ; for had it been made by any Force ; its sides would have appeared wounded, or lacerated ; but on the contrary, round this Orifice there was a smooth Verge, as is seen in *Foramine Venæ Cavæ pervio*, or that, *per quod Gula descendit*. A Sketch of the Diaphragm with its Perforations I have here attempted, and wish I were able to send you a Draught of the Middle Region (which indeed was very surprizing) it might render this account more intelligible than my description can pretend to.

When we took off the *Sternum*, we saw the Mesentery *cum adjunctis Intestinis* in the Cavity of the *Thorax*, and lying upon the Heart and Lungs. There was no *Omentum* spread over the Intestines ; that, as I remem-

ber, was wholly missing, as was likewise the *Mediastinum*. Most part of the *Duodenum* lay in the *Thorax*, and all the rest of the Guts, except the *Rectum*, which (as is already related) ascended in an oblique line from the *Anus*, and its upper end was inserted into this Orifice. After we had some time admired this new Situation of the Intestines and Mesentery, we began to enquire how this Child, according to the Common Notions of Nutrition, could be nourished? That it was Nourish'd seems plain, because it daily receiv'd Food, and regularly voided Excrement, as we are assur'd by those who attended upon it. For salving this Quære, we propos'd to enquire, what communication there was between that Gland, or Glands, in the middle of the Mesentery (commonly called *Pancreas Asellii*) and the *Receptaculum Chyli* placed between the Internal Lumbar Muscles, called *Psoas*; but upon the most accurate Search we were capable of making, there was none to be found; for the whole Meseraick Membrane, and Intestines, lay perfectly loose upon the Heart and Lungs, absolutely disengag'd from any manner of Communication with any other part.

That Vermicular Motion, which shewed itself on the Ribs and Breast, we ascribed to the Peristaltick Motion of the Guts; and the *Dyspnæa*, we thought, might be occasioned by Pressure made on the Lungs by the Intestines and Mesentery, which likewise so fill'd the *Thorax*, that there wanted room for the Lobes of the Lungs to move freely in, and by consequence Inspiration, and Expiration would be performed with Difficulty. See the figure where *a* shews the Foramen thro which the Vena Cava passes. *b* the Foramen thro which the Gula descends. *c* the Foramen thro which part of the Rectum and Duodenum went into the Thorax.

Gobfill (whose case you were pleas'd to print in the *Tranfact.* for *June* 1699. Number 253.) came lately to me, and told me the Stones grew very troublesome to him; that he had of late vomited up two of them, which he shewed me, and I caus'd them to be weigh'd. One weigh'd 3*li*. and the other 3*li*. 3*iss*. He complains, that his Strength is of late much impaired; that he voids great quantities of Blood by Stool, which keeps him very weak. His Stomach is much decay'd, and will retain but few things. His hands are palsy'd; always extreme cold, and his Fingers contracted; he is not able to open them without help, or keep them so, unless by Force. His Legs are very likely in a small time to be as useles to him as his Hands, for, he says, they begin to fail him, and in the same manner; grow cold, and have little sensation in them. But the most remarkable of all his complaints, was, a new Progress the Stones had either found or made. Formerly at night in bed, they us'd to get up (as he express'd it) to his Heart, and upon turning to his Knees, or standing upright on his Feet, they would drop one by one so distinctly, that they might be counted, and in this state they always arose straight up on the right side of his Breast; but now they rise obliquely, and get under his right Arm, inclining towards the *Scapula*, and when they are in this place, by giving him a Blow with the Fist on his right Shoulder, they will all fall down in a Lump together, and may very plainly be heard to clash on the other Stones, which lye as they did formerly just above the *Os Pubis*. After he had told me this Story, I made the experiment before *Dr Fowke* and *Dr Davies*, and the matter of fact proved true as he related it.

The poor Fellow concluded, that he thought he could not live long, and desired, when he dyed, that I would take care his body might be opened. I heartily wish
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Some ingenious Anatomist were appointed for this service, when it shall happen ; for this case, if rightly enquired into, may be of use and satisfaction to the curious.

V. *A Letter from Dr William Musgrave, F. R. S. to the Publisher, concerning some Experiments made for transmitting a blue coloured Liquor into the Lacteals.*

Exon, Sept. 24. 1701.

S I R,

THe new Theory of Continual Fevers, lately publisht, speaking (page 54, 5,) of that considerable experiment of Dr Lister's, made for colouring the Lacteals; and Printed, Phil. Trans. N. 143 ; as if the Dr could never get the experiment done to his satisfaction ; and intimating, That People may be deceived with Blue Tinctures ; for [that] this is the natural colour of these Lacteals, when they are almost, or altogether empty. I have drawn out of my *Adversaria* the sum of what was, a little after that Transaction came out, done by me, in this matter.

Feb. 168 $\frac{1}{2}$ I injected into the Jejunum of a Dog, that had for a day before but little Meat, about 12 ounces of a solution of *Indigo* in Fountain water ; and after three hours opening the Dog a second time, I observed several of the Lacteals of a *Bluish* colour ; which upon stretching of the Mesentery, did several times disappear ; but was most easily discern'd when the Mesentery lay loose ; an Argument that the *Bluish* colour, was not properly of the Vessel ; but of the Liquor contained in it.

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